

NTA UGC NET Jan 2025

Application No	
Candidate Name	
Roll No.	
Test Date	21/01/2025
Test Time	9:00 AM - 12:00 PM
Subject	89 Environmental Sciences

Section : General Paper

Comprehension:

The following table shows the number of employees working in five different departments of a company, namely Production, Finance, R & D, Marketing and HR, along with the number of male employees who are Post-Graduate (PG), percentage of female employees and percentage of PG employees among them. Based on the data in the table answer the questions that follow :

Department-wise details of Employees in a company

Department	Number of Employees	Percentage (%) of Female Employees	Percentage (%) of PG Employees	Number of PG Male Employees
Production	3000	20%	40%	750
Finance	600	40%	80%	250
R & D	400	60%	90%	240
Marketing	2000	45%	60%	900
HR	300	75%	80%	180

SubQuestion No : 1

Q.1 Total number of non-PG female employees in the Production and Marketing departments together is _____ % of the total number of employees in the Production and Marketing departments together.

- (1) 15
- (2) 20
- (3) 18
- (4) 12

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114506

Option 1 ID : 51270156505

Option 2 ID : 51270156506

Option 3 ID : 51270156507

Option 4 ID : 51270156508

Status : Answered

Chosen Option : 3



Comprehension:

The following table shows the number of employees working in five different departments of a company, namely Production, Finance, R & D, Marketing and HR, along with the number of male employees who are Post-Graduate (PG), percentage of female employees and percentage of PG employees among them. Based on the data in the table answer the questions that follow :

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HR	300	75%	80%	180

SubQuestion No : 2

Q.2

Total number of PG employees in the Finance and R & D departments together is _____ less than the number of male employees in the Marketing department.

- (1) 285
- (2) 260
- (3) 270
- (4) 275

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114505

Option 1 ID : 51270156501

Option 2 ID : 51270156502

Option 3 ID : 51270156503

Option 4 ID : 51270156504

Status : Answered

Chosen Option : 2



Comprehension:

The following table shows the number of employees working in five different departments of a company, namely Production, Finance, R & D, Marketing and HR, along with the number of male employees who are Post-Graduate (PG), percentage of female employees and percentage of PG employees among them. Based on the data in the table answer the questions that follow :

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R & D	400	60%	90%	240
Marketing	2000	45%	60%	900
HR	300	75%	80%	180

SubQuestion No : 3

- Q.3** What is the total number of PG female employees in Production, Finance and R and D departments together ?
- (1) 750
 - (2) 800
 - (3) 900
 - (4) 600

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ


Question ID : 51270114508

Option 1 ID : 51270156513

Option 2 ID : 51270156514

Option 3 ID : 51270156515

Option 4 ID : 51270156516

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Status : Answered

Chosen Option : 4



Comprehension:

The following table shows the number of employees working in five different departments of a company, namely Production, Finance, R & D, Marketing and HR, along with the number of male employees who are Post-Graduate (PG), percentage of female employees and percentage of PG employees among them. Based on the data in the table answer the questions that follow :

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Marketing	2000	45%	60%	900
HR	300	75%	80%	180

SubQuestion No : 4

Q.4 The average of PG employees in the Production, Marketing and HR departments is approximately _____ % more than the number of employees in the Finance department.

- (1) 33.33
- (2) 66.67
- (3) 23.33
- (4) 46.67

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114507

Option 1 ID : 51270156509

Option 2 ID : 51270156510

Option 3 ID : 51270156511

Option 4 ID : 51270156512

Status : Not Answered

Chosen Option : -





Comprehension:

The following table shows the number of employees working in five different departments of a company, namely Production, Finance, R & D, Marketing and HR, along with the number of male employees who are Post-Graduate (PG), percentage of female employees and percentage of PG employees among them. Based on the data in the table answer the questions that follow :

Department-wise details of Employees in a company

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R & D	400	60%	90%	240
Marketing	2000	45%	60%	900
HR	300	75%	80%	180

SubQuestion No : 5

Q.5 Total number of male employees in Finance and R & D departments together is _____ more than the total number of PG female employees in Marketing and HR departments together.

- (1) 140
- (2) 120
- (3) 160
- (4) 180

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114509

Option 1 ID : 51270156517

Option 2 ID : 51270156518

Option 3 ID : 51270156519

Option 4 ID : 51270156520

Status : Not Answered

Chosen Option : -





Q.6 Match List - I with List - II.

List - I

(Types of sampling)

- (A) Random sampling
- (B) Stratified sampling
- (C) Cluster sampling
- (D) Systematic sampling

List - II

(Description)

- (I) Dividing population into subgroups that are individually more homogenous than the population and sampling from each of them
- (II) Selecting every n^{th} individual
- (III) Sampling is used when population is divided into smaller groups which share some common characteristics.
- (IV) Equal chance for all participants

Choose the **correct** answer from the options given below :

- (1) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)
- (2) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)
- (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114519

Option 1 ID : 51270156557

Option 2 ID : 51270156558

Option 3 ID : 51270156559

Option 4 ID : 51270156560

Status : Answered

Chosen Option : 1

Q.7 Which among the following was not the part of the triad of first three universities established in 1857 ?

- (1) Bombay
- (2) Calcutta
- (3) Madras
- (4) Allahabad

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114545

Option 1 ID : 51270156661

Option 2 ID : 51270156662

Option 3 ID : 51270156663

Option 4 ID : 51270156664

Status : Answered

Chosen Option : 4



Q.8

Which of the following are examples of Persistent Organic Pollutants (POPs) ?

- (A) Poly Chlorinated Biphenyls
- (B) Formaldehyde
- (C) Dioxins
- (D) Furans

Choose the **most appropriate** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (A), (C) and (D) only
- (3) (B), (C) and (D) only
- (4) (A), (B) and (D) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114542

Option 1 ID : 51270156649

Option 2 ID : 51270156650

Option 3 ID : 51270156651

Option 4 ID : 51270156652

Status : Answered

Chosen Option : 3

Q.9

Identify the correct statement about reliability and validity.

- (A) Reliability measures consistency
- (B) Validity measures accuracy
- (C) Reliability also ensures validity
- (D) Inter-rater reliability is used to compare results between different studies

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) only
- (2) (A), (B) only
- (3) (B), (C), (D) only
- (4) (A), (B), (D) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114518

Option 1 ID : 51270156553

Option 2 ID : 51270156554

Option 3 ID : 51270156555

Option 4 ID : 51270156556

Status : Answered

Chosen Option : 3

- Q.10** In the context of Convention on Biological Diversity (CBD), the first session of Conference of Parties (COPs) was scheduled in :
- (1) Montreal
 - (2) Bahamas
 - (3) Geneva
 - (4) Rio de Janeiro

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **51270114543**
Option 1 ID : **51270156653**
Option 2 ID : **51270156654**
Option 3 ID : **51270156655**
Option 4 ID : **51270156656**
Status : **Answered**
Chosen Option : **4**

- Q.11** Match List - I with List - II.

List - I (Institutions)	List - II (Domains)
(A) NIEPA	(I) To promote quality in technical education
(B) ICSSR	(II) To accredit higher education institutions
(C) NAAC	(III) Education planning and management
(D) AICTE	(IV) To promote social science research

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (3) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (4) (A)-(IV), (B)-(I), (C)-(III), (D)-(II)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **51270114549**
Option 1 ID : **51270156677**
Option 2 ID : **51270156678**
Option 3 ID : **51270156679**
Option 4 ID : **51270156680**
Status : **Answered**
Chosen Option : **3**

Q.12 What is correct in the context of Venn diagram representation of the following?
 "All great scientists are college graduates. Some professional athletes are college graduates.
 Therefore, some professional athletes are great scientists."

- (1) The overlapping part contains only one region of $\overline{S} \cap M$
- (2) The overlapping part contains only one region of $S \cap M$
- (3) Shade out the region $S \cap \overline{M}$ only
- (4) Place 'x' on the line between two regions of $S \cap M$ and $\overline{S} \cap M$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114533

Option 1 ID : 51270156613

Option 2 ID : 51270156614

Option 3 ID : 51270156615

Option 4 ID : 51270156616

Status : Answered

Chosen Option : 1

Q.13 Match List - I with List - II.

List - I

(Malware Example)

- (A) WannaCry
- (B) Stuxnet
- (C) Emotet
- (D) Pegasus

List - II

(Type of Malware)

- (I) Trojan
- (II) Worm
- (III) Spyware
- (IV) Ransomware

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
- (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114539

Option 1 ID : 51270156637

Option 2 ID : 51270156638

Option 3 ID : 51270156639

Option 4 ID : 51270156640

Status : Answered

Chosen Option : 1

Q.14

Which of the given options will occupy the blank space in the series ?

B, DE, HIJ, _____, VWXYZ

- (1) NOPQ
- (2) NOPQR
- (3) OPQR
- (4) MNOPQ

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114525

Option 1 ID : 51270156581

Option 2 ID : 51270156582

Option 3 ID : 51270156583

Option 4 ID : 51270156584

Status : Answered

Chosen Option : 1

Q.15

Match List - I with List - II.

List - I

(Aerosol particles)

- (A) Coarse Particles
- (B) Respirable Particles
- (C) Fine Particles
- (D) Ultrafine Particles

List - II

(Size)

- (I) < 0.1 microns
- (II) > 10 micron
- (III) < 10 micron
- (IV) < 2.5 micron

Choose the correct answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (3) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (4) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114540

Option 1 ID : 51270156641

Option 2 ID : 51270156642

Option 3 ID : 51270156643

Option 4 ID : 51270156644

Status : Answered

Chosen Option : 4

Q.16 Which of the following is the correct order of computer networks A-D from largest to smallest ?

- (A) WAN
- (B) MAN
- (C) LAN
- (D) PAN

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D) only
- (2) (B), (D), (A), (C) only
- (3) (C), (A), (B), (D) only
- (4) (D), (C), (A), (B) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **51270114537**
 Option 1 ID : **51270156629**
 Option 2 ID : **51270156630**
 Option 3 ID : **51270156631**
 Option 4 ID : **51270156632**
 Status : **Answered**
 Chosen Option : **1**

Q.17 The median of the distribution given below is 14.4. The values of x and y , if the total frequency is 20 are respectively :

Class	0-6	6-12	12-18	18-24	24-30
Frequency	4	x	5	y	1

- (1) 6, 4
- (2) 4, 6
- (3) 5, 5
- (4) 7, 3

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **51270114527**
 Option 1 ID : **51270156589**
 Option 2 ID : **51270156590**
 Option 3 ID : **51270156591**
 Option 4 ID : **51270156592**
 Status : **Answered**
 Chosen Option : **2**

Q.18

Find the next term of the series

16, 125, 25, 64, 36, 27, 49, _____.

- (1) 64
- (2) 81
- (3) 216
- (4) 8

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114526

Option 1 ID : 51270156585

Option 2 ID : 51270156586

Option 3 ID : 51270156587

Option 4 ID : 51270156588

Status : Answered

Chosen Option : 4

Q.19

The Sarkar committee (1945) recommended the establishment of higher technical education institutes in four different regions of India on the pattern of :

- (1) Massachusetts Institute of Technology U.S.A.
- (2) Advance Institute of Indian sciences
- (3) London School of Engineering
- (4) University of Kyoto, Japan

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114546

Option 1 ID : 51270156665

Option 2 ID : 51270156666

Option 3 ID : 51270156667

Option 4 ID : 51270156668

Status : Answered

Chosen Option : 2



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Q.20 Arrange the following chronologically according to their year of foundation :

- (A) Takshashila
- (B) Vikramshila
- (C) Nalanda
- (D) Pushpagiri
- (E) Navadwip

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D), (E)
- (2) (A), (D), (C), (B), (E)
- (3) (E), (C), (B), (D), (A)
- (4) (B), (D), (A), (E), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114547**
Option 1 ID : **51270156669**
Option 2 ID : **51270156670**
Option 3 ID : **51270156671**
Option 4 ID : **51270156672**
Status : **Answered**
Chosen Option : **4**

Q.21 The liquids A and B are in the ratio 5 : 1 in container 1 and 1 : 3 in container 2. In what ratio should the contents of the two containers be mixed so as to obtain a mixture of A and B in the ratio 1 : 1 ?

- (1) 2 : 3
- (2) 3 : 2
- (3) 4 : 3
- (4) 3 : 4

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114529**
Option 1 ID : **51270156597**
Option 2 ID : **51270156598**
Option 3 ID : **51270156599**
Option 4 ID : **51270156600**
Status : **Answered**
Chosen Option : **3**



Q.22 Match List - I with List - II.

List - I

(Types of communication Barriers)

- (A) Semantic Barrier
- (B) Physical Barrier
- (C) Psychological Barrier
- (D) Cultural Barrier

List - II

(Meaning)

- (I) Misunderstanding in words or phrases
- (II) Noise or distance
- (III) Emotion or attitudes
- (IV) Differences in social norms

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114524

Option 1 ID : 51270156577

Option 2 ID : 51270156578

Option 3 ID : 51270156579

Option 4 ID : 51270156580

Status : Answered

Chosen Option : 2

Q.23 When correct reasoning is undermined by the deliberate misrepresentation of the opponent's position is said to be the fallacy of.

- (1) ad populum
- (2) ad hominem
- (3) ad baculum
- (4) The Red Herring

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



Question Type : MCQ

Question ID : 51270114532

Option 1 ID : 51270156609

Option 2 ID : 51270156610

Option 3 ID : 51270156611

Option 4 ID : 51270156612

Status : Answered

Chosen Option : 1





Q.24 Net neutrality is the principle that all internet _____ be treated equally.

- (1) users
- (2) data
- (3) servers
- (4) routers

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114536

Option 1 ID : 51270156625

Option 2 ID : 51270156626

Option 3 ID : 51270156627

Option 4 ID : 51270156628

Status : Answered

Chosen Option : 1

Q.25 What among the following can be inferred correctly from EIO (Mood) in IVth figure ?

- (A) Undistributed middle term
- (B) Middle term appears as subject in both the premises
- (C) Predicate of the conclusion is distributed
- (D) Middle term appears as a predicate in the major premise
- (E) Conclusion distributes none of it's terms

Choose the **correct** answer from the options given below :

- (1) (A) and (B) only
- (2) (B) and (C) only
- (3) (C) and (D) only
- (4) (D) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



Question Type : MCQ

Question ID : 51270114534

Option 1 ID : 51270156617

Option 2 ID : 51270156618

Option 3 ID : 51270156619

Option 4 ID : 51270156620

Status : Answered

Chosen Option : 3



Q.26

A classroom in which students from different cultural backgrounds cooperate by doing different parts of a project to reach a common goal is known as _____.

- (1) Surface style classroom
- (2) Jigsaw classroom
- (3) Cluster style classroom
- (4) Face-to-Face style classroom

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114510

Option 1 ID : 51270156521

Option 2 ID : 51270156522

Option 3 ID : 51270156523

Option 4 ID : 51270156524

Status : Answered

Chosen Option : 3

Q.27

As a water disinfectant the strength of Chlorine is measured in terms of :

- (1) Available chlorine
- (2) Total chlorine
- (3) Reactive chlorine
- (4) Pure chlorine

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114541

Option 1 ID : 51270156645

Option 2 ID : 51270156646

Option 3 ID : 51270156647

Option 4 ID : 51270156648

Status : Answered

Chosen Option : 4



Q.28 Match List - I with List - II.

List - I (Tool)	List - II (Used for)
(A) Trello	(I) Interactive video content creation for assessment
(B) Mindmeister	(II) Fun, interactive, research based simulations
(C) Edpuzzle	(III) Project management and task tracking
(D) PhET	(IV) Creating mind maps collaboratively to brainstorm ideas

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114512

Option 1 ID : 51270156529

Option 2 ID : 51270156530

Option 3 ID : 51270156531

Option 4 ID : 51270156532

Status : Answered

Chosen Option : 1

Q.29 Which of the following statements about ICT are true ?

- (A) The Uniform Resource Locator (URL) specifies the protocol, domain, path and resource.
- (B) A web browser is the application software used to access content on WWW.
- (C) A website is a collection of webpages usually on the same topic or theme.
- (D) A web server is a computer with software that makes files available on the OCR.

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (B), (C) and (D) only
- (3) (A) and (D) only
- (4) (A), (B), (C) and (D)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114538

Option 1 ID : 51270156633

Option 2 ID : 51270156634

Option 3 ID : 51270156635

Option 4 ID : 51270156636

Status : Answered

Chosen Option : 4



Q.30

Choose the correct statements :

- (A) PhD in Chemistry is a professional degree
- (B) PhD in education is a professional degree
- (C) LLM is a professional degree
- (D) M. Pharma is a non-professional degree
- (E) M.Sc. Computer Science is a professional degree

Choose the correct answer from the options given below :

- (1) (C) only
- (2) (A), (B), (D) only
- (3) (E) only
- (4) (C) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114548

Option 1 ID : 51270156673

Option 2 ID : 51270156674

Option 3 ID : 51270156675

Option 4 ID : 51270156676

Status : Answered

Chosen Option : 1

Q.31

Which of the following statements is true about variables ?

- (1) Variables are measurable with varying degrees of accuracy depending upon measurement scale used.
- (2) They are mental images varying from individual to individual.
- (3) They are concepts.
- (4) They are perceptions varying from individual to individual.

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114516

Option 1 ID : 51270156545

Option 2 ID : 51270156546

Option 3 ID : 51270156547

Option 4 ID : 51270156548

Status : Answered

Chosen Option : 1



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Q.32 Which of the following is correct in the context of Authoritative classroom management style ?

- (1) It encourages students to be independent thinkers but still provides effective monitoring.
- (2) It is restrictive and punitive.
- (3) It allows students considerable autonomy with little support.
- (4) Teachers show students that they are aware of what is happening.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114511

Option 1 ID : 51270156525

Option 2 ID : 51270156526

Option 3 ID : 51270156527

Option 4 ID : 51270156528

Status : Answered

Chosen Option : 1

Q.33 A man travels three-fifth of a distance AB at a speed of $3a$ and the remaining at the speed of $2b$. If he goes from B to A and returns at a speed of $5c$ in the same time then, :

- (1) $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$
- (2) $a + b = c$
- (3) $\frac{1}{a} + \frac{1}{b} = \frac{2}{c}$
- (4) $\frac{1}{a} + \frac{1}{b} = \frac{1}{2c}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114528

Option 1 ID : 51270156593

Option 2 ID : 51270156594

Option 3 ID : 51270156595

Option 4 ID : 51270156596

Status : Answered

Chosen Option : 4

Q.34

Ravi draws a picture on a piece of paper of 5 inch × 4 inches in size. He wants to use a scanner to scan the picture with 500 pixels per square inch and 16-bit color. Without file compression what is the approximate file size of the scanned image (in MB) ?

- (1) 7.82
- (2) 6.33
- (3) 8.66
- (4) 9.54

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114535

Option 1 ID : 51270156621

Option 2 ID : 51270156622

Option 3 ID : 51270156623

Option 4 ID : 51270156624

Status : Answered

Chosen Option : 2

Q.35

Which among the following is a correct claim ?

- (1) Jainas accept smṛti as a source of valid knowledge
- (2) Laugakṣi Bhāskar (vaiśeṣika) is not in favour of smṛti as a source of valid knowledge
- (3) Nyāya accepts smṛti as a source of valid knowledge
- (4) Mimāṃsakas accept smṛti as a source of valid knowledge

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

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Question Type : MCQ

Question ID : 51270114530

Option 1 ID : 51270156601

Option 2 ID : 51270156602

Option 3 ID : 51270156603

Option 4 ID : 51270156604

Status : Answered

Chosen Option : 2

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Q.36

The loss of information in memory through its non-use is called :

- (1) Dendrites
- (2) Decay
- (3) Discrimination
- (4) Dissociative Amnesia

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114513

Option 1 ID : 51270156533

Option 2 ID : 51270156534

Option 3 ID : 51270156535

Option 4 ID : 51270156536

Status : Answered

Chosen Option : 1

Q.37

The outcome or effect variables are called :

- (1) Triangulation variables
- (2) Extraneous variables
- (3) Intervening variables
- (4) Dependent variables

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114515

Option 1 ID : 51270156541

Option 2 ID : 51270156542

Option 3 ID : 51270156543

Option 4 ID : 51270156544

Status : Answered

Chosen Option : 4



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Q.38

Interpersonal communication is _____.

- (A) Direct face to face
- (B) With group of people
- (C) With large number of anonymous persons
- (D) Between two persons
- (E) Within ourselves or self-communication

Choose the **correct** answer from the options given below :

- (1) (A) and (D) only
- (2) (A) and (B) only
- (3) (C) and (A) only
- (4) (D) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114523

Option 1 ID : 51270156573

Option 2 ID : 51270156574

Option 3 ID : 51270156575

Option 4 ID : 51270156576

Status : Answered

Chosen Option : 1

Q.39

What is the correct increasing order of wavelength of following components of solar radiation ?

- (A) Visible light
- (B) Microwaves
- (C) Infra-red rays
- (D) Ultra-violet rays

Choose the **correct** answer from the options given below :

- (1) (C), (D), (B), (A)
- (2) (A), (B), (D), (C)
- (3) (D), (A), (B), (C)
- (4) (D), (A), (C), (B)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114544

Option 1 ID : 51270156657

Option 2 ID : 51270156658

Option 3 ID : 51270156659

Option 4 ID : 51270156660

Status : Answered

Chosen Option : 4



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Q.40

Identify the correct sequence of stages in qualitative data analysis :

- (A) Organizing the data
- (B) Coding the data
- (C) Identifying themes and patterns
- (D) Interpreting the findings

Choose the **correct** answer from the options given below :

- (1) (B), (A), (C), (D)
- (2) (A), (B), (C), (D)
- (3) (A), (B), (D), (C)
- (4) (B), (C), (A), (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114517

Option 1 ID : 51270156549

Option 2 ID : 51270156550

Option 3 ID : 51270156551

Option 4 ID : 51270156552

Status : Answered

Chosen Option : 1

Q.41

Which of the following are the features of on-demand examination system ?

- (A) More rigid scheme of examination
- (B) Maximum possibility of malpractices or unfair means
- (C) A particular software specially developed for this purpose
- (D) It reduces the workload of students and teachers
- (E) No need to wait for the six monthly end term examinations

Choose the **most appropriate** answer from the options given below :

- (1) (A), (B) and (E) only
- (2) (B), (C) and (D) only
- (3) (A), (B) and (D) only
- (4) (C), (D) and (E) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114514

Option 1 ID : 51270156537

Option 2 ID : 51270156538

Option 3 ID : 51270156539

Option 4 ID : 51270156540

Status : Answered

Chosen Option : 4



Q.42 Identify the advantages of computer based learning or online learning :

- (A) Self-paced learning
- (B) Students can study anywhere
- (C) Hands on experience of lab/practical work
- (D) Flexibility to join discussions in the bulletin board threaded discussion areas at any hour.

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (B), (C), (D) only
- (3) (C), (D) only
- (4) (A), (B) and (D) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114520

Option 1 ID : 51270156561

Option 2 ID : 51270156562

Option 3 ID : 51270156563

Option 4 ID : 51270156564

Status : Answered

Chosen Option : 4

Q.43

What does acronym PIB stand for ?

- (1) Public Information Bureau
- (2) Public Information Broadcasting
- (3) Press Information Bureau
- (4) Press Information Body

Options 1. 1

2. 2

3. 3

4. 4



Question Type : MCQ

Question ID : 51270114521

Option 1 ID : 51270156565

Option 2 ID : 51270156566

Option 3 ID : 51270156567

Option 4 ID : 51270156568

Status : Answered

Chosen Option : 1





Q.44 According to Vedānta, Vyāpti _____.

- (1) is the result of tādātmya (essential identity)
- (2) is the result of an induction by simple enumeration
- (3) is the result of tadutpatti (causality)
- (4) is the result of contradicted experience of the relation between two things

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114531

Option 1 ID : 51270156605

Option 2 ID : 51270156606

Option 3 ID : 51270156607

Option 4 ID : 51270156608

Status : Answered

Chosen Option : 3

Q.45

The chronological order of the normative theories is :

- (A) Libertarian theory
- (B) Soviet Media theory
- (C) Authoritarian theory
- (D) Social responsibility theory

Choose the correct answer from the options given below :

- (1) (A), (C), (D), (B)
- (2) (C), (A), (B), (D)
- (3) (C), (A), (D), (B)
- (4) (A), (B), (C), (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114522

Option 1 ID : 51270156569

Option 2 ID : 51270156570

Option 3 ID : 51270156571

Option 4 ID : 51270156572

Status : Answered

Chosen Option : 2



Comprehension:

Read the following passage and answer the questions that follow :

Street theatre in India is a well established ancient art form. Despite the proliferation of modern means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.

Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today, small groups of performers including students, would stage performances to mobilise public opinion or to help create or raise awareness over a particular issue of public importance.

Themes on substance abuse, AIDS awareness and domestic violence are some of the areas highlighted by contemporary street theatre troupes. Unlike regular drama, street drama employs very little props and images. The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible, they are popular among all age groups.

SubQuestion No : 46

Q.46

The purpose of street theatre is :

- (1) only to entertain people
- (2) to teach theatre to amateurs
- (3) to mobilize public opinion and raise awareness about issues of public importance
- (4) to teach people about the dangers of rash driving

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114552

Option 1 ID : 51270156685

Option 2 ID : 51270156686

Option 3 ID : 51270156687

Option 4 ID : 51270156688

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions that follow :

Street theatre in India is a well established ancient art form. Despite the proliferation of modern means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.

Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today, small groups of performers including students, would stage performances to mobilise public opinion or to help create or raise awareness over a particular issue of public importance.

Themes on substance abuse, AIDS awareness and domestic violence are some of the areas highlighted by contemporary street theatre troupes. Unlike regular drama, street drama employs very little props and images. The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible, they are popular among all age groups.

SubQuestion No : 47

Q.47

Street theatre appeals :

- (1) Only to children
- (2) Only to the youth
- (3) To people of all age groups
- (4) To the elderly

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114555

Option 1 ID : 51270156697

Option 2 ID : 51270156698

Option 3 ID : 51270156699

Option 4 ID : 51270156700

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions that follow :

Street theatre in India is a well established ancient art form. Despite the proliferation of modern means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.

Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today, small groups of performers including students, would stage performances to mobilise public opinion or to help create or raise awareness over a particular issue of public importance.

Themes on substance abuse, AIDS awareness and domestic violence are some of the areas highlighted by contemporary street theatre troupes. Unlike regular drama, street drama employs very little props and images. The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible, they are popular among all age groups.

SubQuestion No : 48

Q.48 In what way have modern forms of entertainment and communication affected street theatre ?

- (1) They have completely overtaken it.
- (2) They have had a damaging effect on it.
- (3) They have relegated it to the rural areas.
- (4) They have had no effect on it.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114551

Option 1 ID : 51270156681

Option 2 ID : 51270156682

Option 3 ID : 51270156683

Option 4 ID : 51270156684

Status : Answered

Chosen Option : 1

Comprehension:

Read the following passage and answer the questions that follow :

Street theatre in India is a well established ancient art form. Despite the proliferation of modern means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.

Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today, small groups of performers including students, would stage performances to mobilise public opinion or to help create or raise awareness over a particular issue of public importance.

Themes on substance abuse, AIDS awareness and domestic violence are some of the areas highlighted by contemporary street theatre troupes. Unlike regular drama, street drama employs very little props and images. The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible, they are popular among all age groups.

SubQuestion No : 49

Q.49

Which of the following is incorrect about street theatre ?

- (1) It uses props and images.
- (2) It is an intimate media.
- (3) It has a quick psychological impact on the audience.
- (4) It has a direct contact with the audience.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114553

Option 1 ID : 51270156689

Option 2 ID : 51270156690

Option 3 ID : 51270156691

Option 4 ID : 51270156692

Status : Answered

Chosen Option : 1



Comprehension:

Read the following passage and answer the questions that follow :

Street theatre in India is a well established ancient art form. Despite the proliferation of modern means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.

Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today, small groups of performers including students, would stage performances to mobilise public opinion or to help create or raise awareness over a particular issue of public importance.

Themes on substance abuse, AIDS awareness and domestic violence are some of the areas highlighted by contemporary street theatre troupes. Unlike regular drama, street drama employs very little props and images. The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible, they are popular among all age groups.

SubQuestion No : 50

Q.50 Select the word that means "giving the best possible profit or benefits in comparison with the money that is spent".

- (1) Proliferation
- (2) Cost-effective
- (3) Choreography
- (4) Propagate

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114554

Option 1 ID : 51270156693

Option 2 ID : 51270156694

Option 3 ID : 51270156695

Option 4 ID : 51270156696

Status : Answered

Chosen Option : 2



Q.51

Arrange the following materials in **decreasing order** of their albedo.

- (A) Pure, Fresh Snow
- (B) Pure, Old Snow
- (C) Ice
- (D) Desert
- (E) Savana

Choose the **correct** answer from the options given below :

- (1) (B), (A), (C), (D), (E)
- (2) (C), (A), (B), (D), (E)
- (3) (A), (B), (C), (E), (D)
- (4) (A), (B), (C), (D), (E)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114603

Option 1 ID : 51270156889

Option 2 ID : 51270156890

Option 3 ID : 51270156891

Option 4 ID : 51270156892

Status : Answered

Chosen Option : 4

Q.52

Shannon - Weaver Diversity Index takes in account.

- (A) Richness of all species
- (B) Richness of only endemic species
- (C) Richness of only invasive species
- (D) Equitability
- (E) Genetic diversity

Choose the **correct** answer from the options given below :

- (1) (B) and (C) Only
- (2) (B) and (E) Only
- (3) (A) and (D) Only
- (4) (C), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114612**

Option 1 ID : **51270156925**

Option 2 ID : **51270156926**

Option 3 ID : **51270156927**

Option 4 ID : **51270156928**

Status : **Answered**

Chosen Option : **3**



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Q.53

Match List - I with List - II.

List - I

(Definition)

- (A) The ratio of mass of water vapour to the mass of dry air
- (B) The ratio of mass of water vapour to the mass of air (dry + water vapour)
- (C) The ratio of mass of water vapour to the volume of air
- (D) The ratio of sensible heat to latent heat fluxes at Earth's surface

List - II

(Term)

- (I) Bowen Ratio
- (II) Absolute humidity
- (III) Specific humidity
- (IV) Mixing Ratio

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
- (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114639

Option 1 ID : 51270157033

Option 2 ID : 51270157034

Option 3 ID : 51270157035

Option 4 ID : 51270157036

Status : Answered

Chosen Option : 3

Q.54

Arrange the following in the **increasing order** of relative concentration of dissolved oxygen in lake water.

- (A) Oligotrophic lakes
- (B) Eutrophic lakes
- (C) Mesotrophic lakes
- (D) Hypereutrophic lakes

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (D), (B), (C), (A)
- (3) (A), (C), (B), (D)
- (4) (D), (C), (B), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114610

Option 1 ID : 51270156917

Option 2 ID : 51270156918

Option 3 ID : 51270156919

Option 4 ID : 51270156920

Status : Answered

Chosen Option : 2



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Q.55 Tidal Range :

- (1) is the difference in water levels between a high tide and mean sea level
- (2) is the difference in water levels between a low tide and mean sea level
- (3) is the time span between two consecutive high and low tides
- (4) is the difference in water levels between two consecutive high and low tides

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114576**

Option 1 ID : **51270156781**

Option 2 ID : **51270156782**

Option 3 ID : **51270156783**

Option 4 ID : **51270156784**

Status : **Answered**

Chosen Option : **4**

Q.56 A noise level meter placed at a distance of 5 m from a point source of noise, records a sound pressure level of 78 dB. If the noise level meter is placed at a distance of 20 m from the point source, the sound pressure level recorded will be approximately :

- (1) 66 dB
- (2) 69 dB
- (3) 72 dB
- (4) 75 dB

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



Question Type : **MCQ**

Question ID : **51270114566**

Option 1 ID : **51270156741**

Option 2 ID : **51270156742**

Option 3 ID : **51270156743**

Option 4 ID : **51270156744**

Status : **Answered**

Chosen Option : **4**



Q.57 If two events 'A' and 'B' are independent, then which of the following expressions on probabilities are correct ?

(A) $P(A|B) = P(A)$

(B) $P(A|B) = \frac{P(A)}{P(B)}$

(C) $P(B|A) = P(B)$

(D) $P(B|A) = \frac{P(B)}{P(A)}$

Choose the **correct** answer from the options given below :

- (1) (A) and (C) Only
- (2) (B) and (D) Only
- (3) (A) Only
- (4) (A) and (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **51270114621**
Option 1 ID : **51270156961**
Option 2 ID : **51270156962**
Option 3 ID : **51270156963**
Option 4 ID : **51270156964**
Status : **Answered**
Chosen Option : **3**

Q.58 The second order moment about mean is equal to :

- (1) 0
- (2) 1
- (3) standard deviation
- (4) variance

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **51270114584**
Option 1 ID : **51270156813**
Option 2 ID : **51270156814**
Option 3 ID : **51270156815**
Option 4 ID : **51270156816**
Status : **Answered**
Chosen Option : **1**

Q.59

Which of the following have albedo greater than the global average ?

- (A) Ice
- (B) Cumulus Clouds
- (C) Stratus Clouds
- (D) Dark wet Soil
- (E) Forest

Choose the **correct** answer from the options given below :

- (1) (A), (D) and (E) Only
- (2) (A), (C) and (D) Only
- (3) (A), (B), (C) and (D) Only
- (4) (A), (B) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114626

Option 1 ID : 51270156981

Option 2 ID : 51270156982

Option 3 ID : 51270156983

Option 4 ID : 51270156984

Status : Answered

Chosen Option : 1

Q.60

In a hydropower plant, huge pipes that deliver water to the turbines are known as :

- (1) Head
- (2) Reservoir
- (3) Penstock
- (4) Spillway

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114581

Option 1 ID : 51270156801

Option 2 ID : 51270156802

Option 3 ID : 51270156803

Option 4 ID : 51270156804

Status : Answered

Chosen Option : 3

Q.61

Loss of biodiversity causes loss of :

- (A) Provisioning services
- (B) Regulating services
- (C) Cultural services
- (D) Supporting services

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (A), (B) and (C) Only
- (3) (B), (C) and (D) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114613

Option 1 ID : 51270156929

Option 2 ID : 51270156930

Option 3 ID : 51270156931

Option 4 ID : 51270156932

Status : Answered

Chosen Option : 4

Q.62

According to Beaufort wind scale, what is the correct **increasing order** of wind-speed of the following ?

- (A) Storm
- (B) Gale
- (C) Hurricane
- (D) Breeze

Choose the **correct** answer from the options given below :

- (1) (A), (B), (D), (C)
- (2) (A), (C), (B), (D)
- (3) (D), (B), (C), (A)
- (4) (D), (B), (A), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114608

Option 1 ID : 51270156909

Option 2 ID : 51270156910

Option 3 ID : 51270156911

Option 4 ID : 51270156912

Status : Answered

Chosen Option : 4



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Q.63

A species originates :

- (1) only from natural selection
- (2) only from reproductive isolation
- (3) from natural selection when it is coupled with reproductive isolation
- (4) neither from natural selection nor from reproductive isolation

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114559

Option 1 ID : 51270156713

Option 2 ID : 51270156714

Option 3 ID : 51270156715

Option 4 ID : 51270156716

Status : Answered

Chosen Option : 3

Q.64

Match List - I with List - II.

List - I (Soil order)	List - II (Common range of CEC ($\text{c mol}_\text{c}/\text{kg}$))
(A) Histosols	(I) 110 - 170
(B) Vertisols	(II) 33 - 67
(C) Andisols	(III) 13 - 49
(D) Spodosols	(IV) 2 - 57

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114636

Option 1 ID : 51270157021

Option 2 ID : 51270157022

Option 3 ID : 51270157023

Option 4 ID : 51270157024

Status : Answered

Chosen Option : 4



Q.65

Which of the following is **NOT** an *ex-situ* bioremediation tool ?

- (1) Bioreactors
- (2) Biofilters
- (3) Bioventing
- (4) Land farming

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114590

Option 1 ID : 51270156837

Option 2 ID : 51270156838

Option 3 ID : 51270156839

Option 4 ID : 51270156840

Status : Answered

Chosen Option : 2

Q.66

Choose the correct statement(s) about O_3 in atmosphere.

- (A) O_3 steady state in troposphere depends on NO/NO_2 ratio.
- (B) A one percent decrease in overhead O_3 is expected to result in increase of 2 percent UV-C at ground level.
- (C) Ozone depleting potential is calculated with reference to CFC-111.
- (D) Halons do not cause catalytic destruction of O_3 in stratosphere.
- (E) HCl and $ClONO_2$ are catalytically active forms of chlorine in stratosphere.

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (D) and (E) Only
- (3) (A) Only
- (4) (A), (B), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114625

Option 1 ID : 51270156977

Option 2 ID : 51270156978

Option 3 ID : 51270156979

Option 4 ID : 51270156980

Status : Answered

Chosen Option : 3

Q.67

Under which conditions, atmosphere will be most stable ?

[Note : surface wind speed is measured at 10 m above the ground]

- (1) wind speed of 2-3 m/s, cloudy night
- (2) wind speed of 2-3 m/s, cloudy summer day
- (3) wind speed of 2-3 m/s, clear night
- (4) wind speed of < 2 m/s, cloudy night

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114582

Option 1 ID : 51270156805

Option 2 ID : 51270156806

Option 3 ID : 51270156807

Option 4 ID : 51270156808

Status : Answered

Chosen Option : 3

Q.68

Match List - I with List - II.

List - I

(Sensors)

- (A) Multi Spectral Instrument (MSI)
- (B) Very High Resolution Radiometer (VHRR)
- (C) Linear Imaging Self Scanner-III (LISS-III)
- (D) Multi-angle Imaging Spectroradiometer (MISR)

List - II

(Satellites)

- (I) INSAT-2
- (II) TERRA
- (III) SENTINEL-2
- (IV) IRS-1D

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114645

Option 1 ID : 51270157057

Option 2 ID : 51270157058

Option 3 ID : 51270157059

Option 4 ID : 51270157060

Status : Answered

Chosen Option : 3

Q.69

As per EIA Notification 2006, which of the following projects or activities is/are categorized as category A ?

- (A) Nuclear Power Projects
- (B) Cement Plants (<1 million tonnes/annum production capacity)
- (C) Rayon Fibres Manufacturing
- (D) Common Municipal Solid Waste Management Facility

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (A) and (C) Only
- (3) (A) and (D) Only
- (4) (B) and (C) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114630**

Option 1 ID : **51270156997**

Option 2 ID : **51270156998**

Option 3 ID : **51270156999**

Option 4 ID : **51270157000**

Status : **Answered**

Chosen Option : **3**

Q.70

A typical basalt consists of approximately 50% :

- (1) Al_2O_3
- (2) FeO
- (3) CaO
- (4) SiO_2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114570**

Option 1 ID : **51270156757**

Option 2 ID : **51270156758**

Option 3 ID : **51270156759**

Option 4 ID : **51270156760**

Status : **Answered**

Chosen Option : **4**

Q.71

According to Hazardous Waste Management Rules 2016, a substance shall be classified hazardous if it :

- (A) exhibits inflammability and corrositivity
- (B) has acute inhalation LD₅₀ less than 50000 ppm as a gas or vapour
- (C) forms potentially explosive mixtures with water
- (D) has acute aquatic toxicity with 50% mortality with in 24 hrs. for Zebra fish
- (E) exhibits reactivity

Choose the **correct** answer from the options given below :

- (1) (A), (B), (D) and (E) Only
- (2) (A), (C) and (E) Only
- (3) (A), (D) and (E) Only
- (4) (A), (C), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114627**

Option 1 ID : **51270156985**

Option 2 ID : **51270156986**

Option 3 ID : **51270156987**

Option 4 ID : **51270156988**

Status : **Answered**

Chosen Option : **2**

Q.72

Arrange the following in the **increasing order** of percentage of net primary productivity consumed by herbivores.

- (A) Phytoplanktonic communities
- (B) Tropical Rainforests
- (C) Mangroves
- (D) Grasslands

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (C), (B), (D), (A)
- (3) (C), (B), (A), (D)
- (4) (B), (A), (C), (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114597**

Option 1 ID : **51270156865**

Option 2 ID : **51270156866**

Option 3 ID : **51270156867**

Option 4 ID : **51270156868**

Status : **Answered**

Chosen Option : **4**



Q.73

Arrange the following aquifer materials in increasing order of their porosity.

- (A) Clay
- (B) Limestone
- (C) Gravel
- (D) Fine Sand

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (B), (C), (A), (D)
- (3) (B), (C), (D), (A)
- (4) (C), (B), (D), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114596

Option 1 ID : 51270156861

Option 2 ID : 51270156862

Option 3 ID : 51270156863

Option 4 ID : 51270156864

Status : Answered

Chosen Option : 2

Q.74

Which of the following gases absorbs outgoing terrestrial radiation in longwave atmospheric window ?

- (1) Oxygen
- (2) Water vapour
- (3) Ozone
- (4) Nitrogen dioxide

Options 1. 1

2. 2

3. 3

4. 4



Question Type : MCQ

Question ID : 51270114588

Option 1 ID : 51270156829

Option 2 ID : 51270156830

Option 3 ID : 51270156831

Option 4 ID : 51270156832

Status : Answered

Chosen Option : 3



Q.75

Match List - I with List - II.

List - I**(Surface Air Flow)**

- (A) North East Trade Winds
- (B) South East Trade Winds
- (C) Doldrums
- (D) Prevailing Westerlies

List - II**(Location)**

- (I) 30°N - 60°N
- (II) 0 - 30°N
- (III) 0 - 30°S
- (IV) Near Equator

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
- (2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114640

Option 1 ID : 51270157037

Option 2 ID : 51270157038

Option 3 ID : 51270157039

Option 4 ID : 51270157040

Status : Answered

Chosen Option : 1

Q.76

The shortwave radiation flux incident on the wall of a hypothetical isolated cubical building placed at a latitude of 50°N peaks in the morning period during summer season. The wall is facing which direction ?

- (1) East
- (2) West
- (3) North
- (4) South

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114564

Option 1 ID : 51270156733

Option 2 ID : 51270156734

Option 3 ID : 51270156735

Option 4 ID : 51270156736

Status : Answered

Chosen Option : 4



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Q.77 In the northern hemisphere, the gradient wind around a high pressure is characterized by :

- (1) Supergeostrophic and clockwise flow
- (2) Subgeostrophic and clockwise flow
- (3) Supergeostrophic and anti-clockwise flow
- (4) Subgeostrophic and anti-clockwise flow

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114572

Option 1 ID : 51270156765

Option 2 ID : 51270156766

Option 3 ID : 51270156767

Option 4 ID : 51270156768

Status : Answered

Chosen Option : 4

Q.78 Arrange the following greenhouse gases in **decreasing order** of their concentration (by volume) in the Earth's atmosphere up to an altitude of 100 km.

- (A) Ozone
- (B) Carbon dioxide
- (C) Methane
- (D) Nitrous oxide

Choose the **correct** answer from the options given below :

- (1) (C), (B), (D), (A)
- (2) (B), (A), (C), (D)
- (3) (B), (C), (D), (A)
- (4) (A), (D), (C), (B)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114609

Option 1 ID : 51270156913

Option 2 ID : 51270156914

Option 3 ID : 51270156915

Option 4 ID : 51270156916

Status : Answered

Chosen Option : 4

Q.79 In a solution, which of the following dissolved species would contribute positively to alkalinity ?

- (A) CO_3^{2-}
- (B) PO_4^{3-}
- (C) HCO_3^-
- (D) OH^-
- (E) HS^-

Choose the **correct** answer from the options given below :

- (1) (A) and (B) only
- (2) (A) and (C) only
- (3) (A), (C) and (D) only
- (4) (A), (B), (C), (D) and (E)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114615

Option 1 ID : 51270156937

Option 2 ID : 51270156938

Option 3 ID : 51270156939

Option 4 ID : 51270156940

Status : Answered

Chosen Option : 4

Q.80 The sensitivity of a remote sensing detector to differences in signal strength, is known as :

- (1) Radiometric resolution
- (2) Spectral resolution
- (3) Spatial resolution
- (4) Temporal resolution

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114575

Option 1 ID : 51270156777

Option 2 ID : 51270156778

Option 3 ID : 51270156779

Option 4 ID : 51270156780

Status : Answered

Chosen Option : 2

Q.81 Ratio between the concentration of a substance in animal tissue and its daily dietary intake of a terrestrial animal, is expressed as :

- (1) Bioconcentration factor
- (2) Biotransfer factor
- (3) Partition coefficient
- (4) Toxicant concentration

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 51270114592
Option 1 ID : 51270156845
Option 2 ID : 51270156846
Option 3 ID : 51270156847
Option 4 ID : 51270156848
Status : Answered
Chosen Option : 1

Q.82 Arrange the following substances in the **increasing order** of their heat capacity at standard temperature and pressure.

- (A) Ice
- (B) Water
- (C) Air
- (D) Dry Sand

Choose the **correct** answer from the options given below :

- (1) (B), (A), (D), (C)
- (2) (A), (B), (C), (D)
- (3) (C), (D), (A), (B)
- (4) (D), (C), (B), (A)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 51270114607
Option 1 ID : 51270156905
Option 2 ID : 51270156906
Option 3 ID : 51270156907
Option 4 ID : 51270156908
Status : Answered
Chosen Option : 2

Q.83

The masses of both proton and neutron are approximately 1.67×10^{-27} kg. The mass of ${}^4_2\text{He}$ nucleus is about 6.64×10^{-27} kg. The energy released in the formation of a helium nucleus from two protons and two neutrons is :

- (1) $\sim 6.68 \times 10^{-27}$ J
- (2) $\sim 4 \times 10^{-29}$ J
- (3) $\sim 6.64 \times 10^{-27}$ J
- (4) $\sim 3.60 \times 10^{-12}$ J

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114577

Option 1 ID : 51270156785

Option 2 ID : 51270156786

Option 3 ID : 51270156787

Option 4 ID : 51270156788

Status : Answered

Chosen Option : 1

Q.84

Identify the correct sequence of regional metamorphosis of shale.

- (A) Slate
- (B) Schist
- (C) Phyllite
- (D) Gneiss

Choose the correct answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (B), (A), (D), (C)
- (3) (D), (C), (B), (A)
- (4) (A), (C), (B), (D)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114599

Option 1 ID : 51270156873

Option 2 ID : 51270156874

Option 3 ID : 51270156875

Option 4 ID : 51270156876

Status : Answered

Chosen Option : 4



Q.85 Match List - I with List - II.

List - I

(Components of time series)

- (A) Trend
- (B) Cyclical
- (C) Seasonal
- (D) Irregular

List - II

(Definition)

- (I) Reflects the random variation of the time series value
- (II) Reflects a long-term movement in time series
- (III) An alternating sequence of points above and below a trend line lasting more than one year
- (IV) A periodic pattern of change in time series within a year and repeated continuously

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114643**

Option 1 ID : **51270157049**

Option 2 ID : **51270157050**

Option 3 ID : **51270157051**

Option 4 ID : **51270157052**

Status : **Answered**

Chosen Option : **3**

Q.86 A building can be awarded three star rating under GRIHA Rating Norms 2019 if its point score is :

- (1) 72
- (2) 68
- (3) 52
- (4) 81

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114587**

Option 1 ID : **51270156825**

Option 2 ID : **51270156826**

Option 3 ID : **51270156827**

Option 4 ID : **51270156828**

Status : **Answered**

Chosen Option : **1**



Q.87

In the analysis of coal, when the ratio of all the inorganic base compounds in the ash to the sum of all acid compounds in the ash, is multiplied by the percentage of sodium oxide in the ash, it is called :

- (1) Fouling Factor
- (2) Alkali Index
- (3) Base to acid Ratio
- (4) Slagging Factor

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114595

Option 1 ID : 51270156857

Option 2 ID : 51270156858

Option 3 ID : 51270156859

Option 4 ID : 51270156860

Status : Answered

Chosen Option : 3

Q.88

Match List - I with List - II.

List - I

(Conference of the Parties (UNFCCC))

- (A) COP26
- (B) COP27
- (C) COP28
- (D) COP29

List - II

(City)

- (I) Baku
- (II) Dubai
- (III) Sharmel-Sheikh
- (IV) Glasgow

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (3) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
- (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114631

Option 1 ID : 51270157001

Option 2 ID : 51270157002

Option 3 ID : 51270157003

Option 4 ID : 51270157004

Status : Answered

Chosen Option : 4



Q.89

The Solar constant is :

- (A) average temperature at sun's surface
- (B) a measure of solar energy impinging upon sun facing unit area of earth's top of atmosphere
- (C) 1000 W/m^2
- (D) variable

Choose the **correct** answer from the options given below :

- (1) (A), (C) and (D) Only
- (2) (B), (C) and (D) Only
- (3) (B) and (D) Only
- (4) (A) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114618

Option 1 ID : 51270156949

Option 2 ID : 51270156950

Option 3 ID : 51270156951

Option 4 ID : 51270156952

Status : Answered

Chosen Option : 4

Q.90

The intensity of solar radiation reaching at the top of the atmosphere of Earth, is maximum at ~500 nm. This can be explained by :

- (1) Stefens-Boltzman Law
- (2) Wein's displacement Law
- (3) Kirchoff's Law
- (4) Kepler's Law

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



Question Type : MCQ

Question ID : 51270114569

Option 1 ID : 51270156753

Option 2 ID : 51270156754

Option 3 ID : 51270156755

Option 4 ID : 51270156756

Status : Answered

Chosen Option : 3



Q.91 If data on a variable is distributed normally with a mean 20 and standard deviation 4, the probability that the variable lies between 16 and 24, is :

- (1) ~ 0.5
- (2) ~ 0.68
- (3) ~ 0.80
- (4) ~ 0.95

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 51270114586
Option 1 ID : 51270156821
Option 2 ID : 51270156822
Option 3 ID : 51270156823
Option 4 ID : 51270156824
Status : Answered
Chosen Option : 1

Q.92 Identify the models that are appropriate for univariate data.

- (A) Logit Regression
- (B) Exponential Smoothing
- (C) Moving Average
- (D) Auto-regressive

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (B), (C) and (D) Only
- (3) (A), (B) and (D) Only
- (4) (A), (C) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 51270114622
Option 1 ID : 51270156965
Option 2 ID : 51270156966
Option 3 ID : 51270156967
Option 4 ID : 51270156968
Status : Answered
Chosen Option : 3

Q.93

Which of the following is emitted in least amount when coal is burnt ?

- (1) Sulphur dioxide
- (2) Ammonia
- (3) Carbon dioxide
- (4) Nitrogen oxides

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114578

Option 1 ID : 51270156789

Option 2 ID : 51270156790

Option 3 ID : 51270156791

Option 4 ID : 51270156792

Status : Answered

Chosen Option : 2

Q.94

For a set of observations $X = [1, 2, 4, 8, 16, 32]$, the relationship among arithmetic mean (A. M.), geometric mean (G. M.) and harmonic mean (H. M.) will be represented as :

- (1) $G. M. = \left(\frac{A. M.}{H. M.} \right)^2$
- (2) $A. M. = \left(\frac{G. M.}{H. M.} \right)^2$
- (3) $G. M. = (A. M. \times H. M.)^{\frac{1}{2}}$
- (4) $A. M. = (G. M. \times H. M.)^{\frac{1}{2}}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114583

Option 1 ID : 51270156809

Option 2 ID : 51270156810

Option 3 ID : 51270156811

Option 4 ID : 51270156812

Status : Answered

Chosen Option : 2

Q.95

Arrange the following in the **decreasing order** of species richness.

- (A) Fungi
- (B) Vascular plants
- (C) Insects, centipedes and millipedes
- (D) Vertebrates
- (E) Crustaceans

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D), (E)
- (2) (A), (B), (E), (D), (C)
- (3) (C), (A), (B), (E), (D)
- (4) (E), (D), (C), (B), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114598**

Option 1 ID : **51270156869**

Option 2 ID : **51270156870**

Option 3 ID : **51270156871**

Option 4 ID : **51270156872**

Status : **Answered**

Chosen Option : **4**

Q.96

For quantitative analysis in the visible region of the spectrum, cuvetts (sample holders) can be made of :

- (A) Quartz
- (B) Transparent plastic
- (C) Glass
- (D) Fused Silica

Choose the **correct** answer from the options given below :

- (1) (A) Only
- (2) (A) and (C) Only
- (3) (A), (B) and (C) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114629**

Option 1 ID : **51270156993**

Option 2 ID : **51270156994**

Option 3 ID : **51270156995**

Option 4 ID : **51270156996**

Status : **Answered**

Chosen Option : **2**

Q.97

Concentration of dissolved oxygen in water is determined by :

- (A) Turbulence
- (B) Temperature
- (C) Concentration of oxygen in atmosphere
- (D) Activity of organism
- (E) Genetic diversity

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) and (D) Only
- (2) (B), (C) and (D) Only
- (3) (B), (C), (D) and (E) Only
- (4) (A), (B), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114611

Option 1 ID : 51270156921

Option 2 ID : 51270156922

Option 3 ID : 51270156923

Option 4 ID : 51270156924

Status : Answered

Chosen Option : 4

Q.98

According to Stoke's law, the terminal velocity of a particle in a medium depends on :

- (A) Gravitational acceleration
- (B) Density of the particle
- (C) Density of the medium
- (D) Size of the particle
- (E) Viscosity of the medium

Choose the **correct** answer from the options given below :

- (1) (B), (D) and (E) Only
- (2) (A), (D) and (E) Only
- (3) (A), (B), (C), (D) and (E)
- (4) (A), (B), (C) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114623

Option 1 ID : 51270156969

Option 2 ID : 51270156970

Option 3 ID : 51270156971

Option 4 ID : 51270156972

Status : Answered

Chosen Option : 3

Q.99

Arrange the following in terms of **increasing** range of values they can take.

- (A) Coefficient of determination
- (B) Sum of the deviations about mean
- (C) Standard normal variate
- (D) Coefficient of correlation

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (B), (C), (D), (A)
- (3) (A), (C), (D), (B)
- (4) (B), (A), (D), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114602**

Option 1 ID : **51270156885**

Option 2 ID : **51270156886**

Option 3 ID : **51270156887**

Option 4 ID : **51270156888**

Status : **Answered**

Chosen Option : **3**

Q.100

A cone of depression forms when :

- (A) A stream flows into a sinkhole
- (B) Water in the zone of aeration is replaced by water from the zone of saturation
- (C) A spring forms where a perched water table intersects the surface
- (D) Water is withdrawn from a well faster than it can be replaced

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (D) Only
- (3) (C) and (D) Only
- (4) (A), (B) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114614**

Option 1 ID : **51270156933**

Option 2 ID : **51270156934**

Option 3 ID : **51270156935**

Option 4 ID : **51270156936**

Status : **Answered**

Chosen Option : **1**

Q.101

Under the Construction and Demolition Waste Management Rules 2016, segregation and approval of waste management plan from local authority is mandatory for waste generators who generate at least :

- (1) 200 tons/project/month
- (2) 300 tons/project/month
- (3) 100 tons/project/month
- (4) 10 tons/project/month

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114579

Option 1 ID : 51270156793

Option 2 ID : 51270156794

Option 3 ID : 51270156795

Option 4 ID : 51270156796

Status : Answered

Chosen Option : 3

Q.102

In which component of the biosensor does a whole bacterial cell work ?

- (1) Electrical interface
- (2) Transducer element
- (3) Recognition element
- (4) Display unit

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

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Question Type : MCQ

Question ID : 51270114573

Option 1 ID : 51270156769

Option 2 ID : 51270156770

Option 3 ID : 51270156771

Option 4 ID : 51270156772

Status : Answered

Chosen Option : 1

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Q.103 Match List - I with List - II.

List - I
(Elements in humic substances)

- (A) C
- (B) O
- (C) H
- (D) N

List - II
(Concentration range)

- (I) 45% - 55%
- (II) 30% - 45%
- (III) 3% - 6%
- (IV) 1% - 5%

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114635

Option 1 ID : 51270157017

Option 2 ID : 51270157018

Option 3 ID : 51270157019

Option 4 ID : 51270157020

Status : Answered

Chosen Option : 3

Q.104 Global atmospheric circulation tends to produce arid areas at :

- (1) 30° Latitude
- (2) 10° Latitude
- (3) 60° Latitude
- (4) The equator

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114594

Option 1 ID : 51270156853

Option 2 ID : 51270156854

Option 3 ID : 51270156855

Option 4 ID : 51270156856

Status : Answered

Chosen Option : 4



Q.105 The best method for separation and identification of trace levels of high molecular weight biomolecules is :

- (1) GC - MS
- (2) HPLC with UV detection
- (3) LC - MS
- (4) GPC with RI detection

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
 Question ID : **51270114561**
 Option 1 ID : **51270156721**
 Option 2 ID : **51270156722**
 Option 3 ID : **51270156723**
 Option 4 ID : **51270156724**
 Status : **Answered**
 Chosen Option : **1**

Q.106 Match List - I with List - II.

List - I

(Process)

- (A) Dissolution of calcite
- (B) Oxidation of olivine
- (C) Hydrolysis of orthoclase
- (D) Hydrolysis of quartz

List - II

(Product)

- (I) Chert
- (II) Kaolinite
- (III) Hematite
- (IV) Travertine

Choose the **correct** answer from the options given below :

- (1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (2) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
 Question ID : **51270114641**
 Option 1 ID : **51270157041**
 Option 2 ID : **51270157042**
 Option 3 ID : **51270157043**
 Option 4 ID : **51270157044**
 Status : **Answered**
 Chosen Option : **4**

Q.107 Which of the following is the correct criterion for site selection of sanitary landfills according to Solid Waste Management Rules 2016 ?

- (1) at least 100 meters away from river
- (2) at least 100 meters away from highways
- (3) at least 100 meters away from schools
- (4) at least 5 Kilometers away from Airports

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114580**
Option 1 ID : **51270156797**
Option 2 ID : **51270156798**
Option 3 ID : **51270156799**
Option 4 ID : **51270156800**
Status : **Answered**
Chosen Option : **1**

Q.108 Arrange the following wildlife conservation projects in chronological order.

- (A) Project Tiger
- (B) Project Elephant
- (C) Crocodile Conservation
- (D) GOI-UNDP Sea Turtle Project

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (A), (C), (B), (D)
- (3) (B), (A), (C), (D)
- (4) (B), (C), (A), (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114606**
Option 1 ID : **51270156901**
Option 2 ID : **51270156902**
Option 3 ID : **51270156903**
Option 4 ID : **51270156904**
Status : **Answered**
Chosen Option : **1**

- Q.109** The difference between the amount of chlorine added to water and the amount of residual chlorine after a specified contact period, is defined as :
- (1) Combined available chlorine
 - (2) Chlorine demand
 - (3) Free available chlorine
 - (4) Total chlorine

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
 Question ID : **51270114560**
 Option 1 ID : **51270156717**
 Option 2 ID : **51270156718**
 Option 3 ID : **51270156719**
 Option 4 ID : **51270156720**
 Status : **Answered**
 Chosen Option : **2**

- Q.110** Match List - I with List - II.

List - I (Chemicals)	List - II (Purpose)
(A) FeCl_3	(I) added to wastewater during activated sludge treatment to promote microbial growth
(B) $\text{Ca}(\text{OH})_2$	(II) added to lower pH after chemical precipitation in soda-lime process
(C) CO_2	(III) used in the soda-lime process for removal of hardness
(D) O_2	(IV) added to aid in coagulation of particles before sedimentation

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
 Question ID : **51270114637**
 Option 1 ID : **51270157025**
 Option 2 ID : **51270157026**
 Option 3 ID : **51270157027**
 Option 4 ID : **51270157028**
 Status : **Answered**
 Chosen Option : **4**

Q.111

C : N ratio of plant tissues is :

- (1) higher than C : N ratio of bacteria
- (2) lower than C : N ratio of fungi
- (3) lower than C : N ratio of terrestrial animals
- (4) lower than C : N ratio of aquatic animals

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114557

Option 1 ID : 51270156705

Option 2 ID : 51270156706

Option 3 ID : 51270156707

Option 4 ID : 51270156708

Status : Answered

Chosen Option : 2

Q.112

Which of the following does NOT belong to primary wastewater treatment ?

- (1) Bar Screen
- (2) Grit Chamber
- (3) Trickling Filter
- (4) Primary Clarifier

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114562

Option 1 ID : 51270156725

Option 2 ID : 51270156726

Option 3 ID : 51270156727

Option 4 ID : 51270156728

Status : Answered

Chosen Option : 2



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Q.113 A type of observational study that follows a group of participants over a period of time, examining how certain factors affect their health outcomes is referred to as :

- (1) Experimental study
- (2) Cohort study
- (3) Case - control study
- (4) Case - crossover study

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114568**
Option 1 ID : **51270156749**
Option 2 ID : **51270156750**
Option 3 ID : **51270156751**
Option 4 ID : **51270156752**
Status : **Answered**
Chosen Option : **2**

Q.114 Arrange the following Environmental Acts in chronological order.

- (A) Environment (Protection) Act
- (B) Air (Prevention and Control of Pollution) Act
- (C) Water (Prevention and Control of Pollution) Act
- (D) Wildlife (Protection) Act
- (E) The Public Liability Insurance Act

Choose the **correct** answer from the options given below :

- (1) (E), (B), (C), (D), (A)
- (2) (C), (A), (D), (B), (E)
- (3) (D), (C), (B), (A), (E)
- (4) (E), (D), (A), (B), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114605**
Option 1 ID : **51270156897**
Option 2 ID : **51270156898**
Option 3 ID : **51270156899**
Option 4 ID : **51270156900**
Status : **Answered**
Chosen Option : **3**

Q.115 Which of the following factor(s) is/are used to calculate global warming potential of greenhouse gases ?

- (A) Concentration
- (B) Spectral window
- (C) Atmospheric lifetime
- (D) Absorption efficiency

Choose the **correct** answer from the options given below :

- (1) (A) Only
- (2) (C) Only
- (3) (A), (C), (D) Only
- (4) (A), (B), (C), (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114616**

Option 1 ID : **51270156941**

Option 2 ID : **51270156942**

Option 3 ID : **51270156943**

Option 4 ID : **51270156944**

Status : **Answered**

Chosen Option : **3**

Q.116 F-Distribution is used in hypothesis testing in which of the following situations ?

- (A) Influences about two population variances
- (B) Comparing more than two population means
- (C) Testing the significance of correlation coefficient
- (D) Inference about a population mean

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (C) and (D) Only
- (4) (A) and (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114620**

Option 1 ID : **51270156957**

Option 2 ID : **51270156958**

Option 3 ID : **51270156959**

Option 4 ID : **51270156960**

Status : **Answered**

Chosen Option : **2**

Q.117 Arrange the energy conversion processes in the following in order from the least to the most efficient.

- (A) Electric hot water heater
- (B) Photosynthesis
- (C) Solar cell
- (D) Electric generator
- (E) Aircraft jet engine

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D), (E)
- (2) (B), (D), (E), (C), (A)
- (3) (C), (B), (A), (E), (D)
- (4) (B), (C), (E), (D), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114601**

Option 1 ID : **51270156881**

Option 2 ID : **51270156882**

Option 3 ID : **51270156883**

Option 4 ID : **51270156884**

Status : **Answered**

Chosen Option : **4**

Q.118 Match List - I with List - II.

List - I (Substance)	List - II (Chemical compounds)
(A) Lime stone	(I) Calcium carbonate
(B) Quick lime	(II) Calcium hydroxide
(C) Slaked lime	(III) Aqueous solution of calcium hydroxide
(D) Lime water	(IV) Calcium oxide

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114634**

Option 1 ID : **51270157013**

Option 2 ID : **51270157014**

Option 3 ID : **51270157015**

Option 4 ID : **51270157016**

Status : **Answered**

Chosen Option : **3**

Q.119 Resistance of a population to a pathogen as a result of immunity of a large portion of the population is known as :

- (1) Innate immunity
- (2) Adaptive immunity
- (3) Morbidity
- (4) Herd immunity

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114589**
Option 1 ID : **51270156833**
Option 2 ID : **51270156834**
Option 3 ID : **51270156835**
Option 4 ID : **51270156836**
Status : **Answered**
Chosen Option : **4**

Q.120 Identify the correct sequence of coal grade formation from sedimentary to metamorphic rock.

- (A) Peat
- (B) Anthracite
- (C) Bituminous
- (D) Lignite

Choose the **correct** answer from the options given below :

- (1) (D), (A), (C), (B)
- (2) (D), (C), (B), (A)
- (3) (A), (D), (C), (B)
- (4) (A), (B), (C), (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114600**
Option 1 ID : **51270156877**
Option 2 ID : **51270156878**
Option 3 ID : **51270156879**
Option 4 ID : **51270156880**
Status : **Answered**
Chosen Option : **3**



Q.121 Match List - I with List - II.

- List - I**
(Terms in Epidemiology)
- (A) Vehicle
 - (B) Carrier
 - (C) Fomite

- List - II**
(Description)
- (I) Living agent that transfers pathogen
 - (II) Pathogen-contaminated inanimate object
 - (III) Non living source which transmits pathogens to large number of individuals
 - (IV) Sub-clinically infected individual

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (4) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114644

Option 1 ID : 51270157053

Option 2 ID : 51270157054

Option 3 ID : 51270157055

Option 4 ID : 51270157056

Status : Answered

Chosen Option : 2

Q.122 Substances that catch fire spontaneously in air without an ignition source, are called :

- (1) Flammable solids
- (2) Combustible liquids
- (3) Flammable liquids
- (4) Pyrophoric

Options 1. 1

- 2. 2
- 3. 3
- 4. 4



Question Type : MCQ

Question ID : 51270114563

Option 1 ID : 51270156729

Option 2 ID : 51270156730

Option 3 ID : 51270156731

Option 4 ID : 51270156732

Status : Answered

Chosen Option : 3



Q.123 Removal of a species leads to significant changes that spread throughout the food web. This species can be called as a :

- (1) Climax species
- (2) Invasive species
- (3) Flagship species
- (4) Keystone species

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114556**
Option 1 ID : **51270156701**
Option 2 ID : **51270156702**
Option 3 ID : **51270156703**
Option 4 ID : **51270156704**
Status : **Answered**
Chosen Option : **4**

Q.124 Radiation pertaining to wavelengths suitable for photosynthesis is about :

- (1) 44 % of incident shortwave radiation
- (2) 74 % of incident shortwave radiation
- (3) 84 % of incident shortwave radiation
- (4) 94 % of incident shortwave radiation

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114558**
Option 1 ID : **51270156709**
Option 2 ID : **51270156710**
Option 3 ID : **51270156711**
Option 4 ID : **51270156712**
Status : **Answered**
Chosen Option : **1**



Q.125 Identify factor(s) that cause(s) the Beer's law relationship to be non linear :

- (A) Polychromatic radiation
- (B) Unknown chemical changes such as association or dissociation reactions
- (C) Stray light
- (D) Molecular or ionic interactions at high concentration

Choose the **correct** answer from the options given below :

- (1) (A) Only
- (2) (B) and (C) Only
- (3) (A), (B) and (C) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114628

Option 1 ID : 51270156989

Option 2 ID : 51270156990

Option 3 ID : 51270156991

Option 4 ID : 51270156992

Status : Answered

Chosen Option : 1

Q.126 The process, which is NOT part of the Sedimentary rock formation, is :

- (1) Deposition
- (2) Intrusion
- (3) Lithification
- (4) Erosion

Options 1. 1

2. 2

3. 3

4. 4



Question Type : MCQ

Question ID : 51270114571

Option 1 ID : 51270156761

Option 2 ID : 51270156762

Option 3 ID : 51270156763

Option 4 ID : 51270156764

Status : Answered

Chosen Option : 3



Q.127 Extended Producer Responsibility (EPR) mechanism has been incorporated for management of :

- (A) Plastic Packaging Waste
- (B) E-Waste
- (C) Battery waste
- (D) Used oil
- (E) Waste tyre

Choose the **correct** answer from the options given below :

- (1) (B) and (C) Only
- (2) (B), (C) and (D) Only
- (3) (A), (B) and (C) Only
- (4) (A), (B), (C), (D) and (E)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114617**

Option 1 ID : **51270156945**

Option 2 ID : **51270156946**

Option 3 ID : **51270156947**

Option 4 ID : **51270156948**

Status : **Answered**

Chosen Option : **3**

Q.128 The source of Earth's interior heat is a combination of :

- (1) Radioactivity, solar wind and earthquakes
- (2) Decay of radioactive elements in the interior and the impacts of extraterrestrial objects
- (3) Solar wind, compression and volcanism
- (4) Nuclear fusion, volcanism and compression

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **51270114593**

Option 1 ID : **51270156849**

Option 2 ID : **51270156850**

Option 3 ID : **51270156851**

Option 4 ID : **51270156852**

Status : **Answered**

Chosen Option : **3**

Q.129 In which component of Life Cycle Analysis, is the 'flows of materials' quantified ?

- (1) Waste mining
- (2) Impact analysis
- (3) Inventory analysis
- (4) Improvement analysis

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114591**

Option 1 ID : **51270156841**

Option 2 ID : **51270156842**

Option 3 ID : **51270156843**

Option 4 ID : **51270156844**

Status : **Answered**

Chosen Option : **3**

Q.130 Which of the following planets has maximum CO₂ concentration (by volume) in its atmospheric composition ?

- (1) Earth
- (2) Mercury
- (3) Venus
- (4) Jupiter

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **51270114574**

Option 1 ID : **51270156773**

Option 2 ID : **51270156774**

Option 3 ID : **51270156775**

Option 4 ID : **51270156776**

Status : **Answered**

Chosen Option : **1**



Q.131 Match List - I with List - II.

**List - I
(Organisms)**

- (A) C_3 species
- (B) C_4 species
- (C) Birds and bats
- (D) Marsupial and placental mammals

**List - II
(Associated process)**

- (I) Insignificant change in rate of photosynthesis with increase in CO_2 concentration
- (II) Increase in rate of photosynthesis with increase in CO_2 concentration
- (III) Parallel evolution
- (IV) Convergent evolution

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114633

Option 1 ID : 51270157009

Option 2 ID : 51270157010

Option 3 ID : 51270157011

Option 4 ID : 51270157012

Status : Answered

Chosen Option : 4

Q.132 Match List - I with List - II.

**List - I
(Process)**

- (A) Biological nitrogen fixation
- (B) Nitrification
- (C) Immobilization
- (D) Mineralization

**List - II
(Outcome)**

- (I) Conversion of ammonium to nitrate
- (II) Conversion of elements from organic to inorganic form
- (III) Conversion of nitrogen gas to ammonium
- (IV) Incorporation of inorganic nutrient elements into organic forms

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
- (2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114632

Option 1 ID : 51270157005

Option 2 ID : 51270157006

Option 3 ID : 51270157007

Option 4 ID : 51270157008

Status : Answered

Chosen Option : 3



Q.133 Which of the following is the most appropriate for visualising time sequence data of a variable ?

- (1) Line chart
- (2) Histogram
- (3) Scatter plot
- (4) Box plot

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114585**
Option 1 ID : **51270156817**
Option 2 ID : **51270156818**
Option 3 ID : **51270156819**
Option 4 ID : **51270156820**
Status : **Answered**
Chosen Option : **2**

Q.134 Polychloride biphenyls, PCBs :

- (1) consist of more than 200 congeners with different numbers of chlorine atoms
- (2) occur primarily as localized pollutants
- (3) had no common uses, but were produced as manufacturing by-products
- (4) are noted for their biological instability and, therefore toxicity

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **51270114565**
Option 1 ID : **51270156737**
Option 2 ID : **51270156738**
Option 3 ID : **51270156739**
Option 4 ID : **51270156740**
Status : **Answered**
Chosen Option : **4**



Q.135 Match List - I with List - II.

List - I

(Solar Appliance)

- (A) Solar Oven
- (B) Solar Kiln
- (C) Solar Still
- (D) Solar Thermal Collector

List - II

(Uses)

- (I) Provide fresh potable water
- (II) Generate Electricity
- (III) Drying products
- (IV) Cooking

Choose the **correct** answer from the options given below :

- (1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114638

Option 1 ID : 51270157029

Option 2 ID : 51270157030

Option 3 ID : 51270157031

Option 4 ID : 51270157032

Status : Answered

Chosen Option : 1

Q.136 Coriolis acceleration of a particle over the earth's surface depends on :

- (A) Angular Velocity of Earth
- (B) Mass of the particle
- (C) Latitude of the location
- (D) Velocity of the particle
- (E) Longitude of the location

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (A), (C) and (D) Only
- (3) (A), (D) and (E) Only
- (4) (A), (B), (C) and (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114619

Option 1 ID : 51270156953

Option 2 ID : 51270156954

Option 3 ID : 51270156955

Option 4 ID : 51270156956

Status : Answered

Chosen Option : 4



Q.137

Match List - I with List - II.

List - I (Mineral)	List - II (Silicate structure)
(A) Augite	(I) Double Chains
(B) Hornblende	(II) Single Chains
(C) Biotite	(III) Three dimensional network
(D) Quartz	(IV) Sheet

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114642

Option 1 ID : 51270157045

Option 2 ID : 51270157046

Option 3 ID : 51270157047

Option 4 ID : 51270157048

Status : Answered

Chosen Option : 3

Q.138

Which of the following is true if gasoline is burnt in perfect air/fuel stoichiometric ratio in internal combustion engines ?

- (A) Fuel consumption decreases.
- (B) Power of engine remains optimum.
- (C) NO_x emission remains high compared to rich and lean fuel.
- (D) Hydrocarbon emission remains low.
- (E) Carbon monoxide emission decreases compared to rich fuel.

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (E) Only
- (2) (A), (B) and (D) Only
- (3) (A), (B), (C), (D) and (E)
- (4) (A), (B), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114624

Option 1 ID : 51270156973

Option 2 ID : 51270156974

Option 3 ID : 51270156975

Option 4 ID : 51270156976

Status : Answered

Chosen Option : 3



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Q.139 Which feature of the chemical differentiation of Earth today reflects the influence of the iron catastrophe ?

- (1) There is more iron in the core than in the crust.
- (2) The lower lithosphere stores most of Earth's iron.
- (3) Much of Earth's iron has escaped as a result of extraterrestrial impacts.
- (4) Iron is rare in Earth.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114567

Option 1 ID : 51270156745

Option 2 ID : 51270156746

Option 3 ID : 51270156747

Option 4 ID : 51270156748

Status : Answered

Chosen Option : 1

Q.140 Identify the correct sequence of concentration in increasing order of following uranium isotopes in naturally occurring uranium ?

- (A) U^{233}
- (B) U^{234}
- (C) U^{235}
- (D) U^{238}

Choose the correct answer from the options given below :

- (1) (A), (B), (C), (D)
- (2) (A), (B), (D), (C)
- (3) (D), (C), (B), (A)
- (4) (D), (C), (A), (B)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 51270114604

Option 1 ID : 51270156893

Option 2 ID : 51270156894

Option 3 ID : 51270156895

Option 4 ID : 51270156896

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

The first phototrophs were anoxygenic and likely used H_2S as electron donor for CO_2 fixation, generating elemental sulfur (S^0) as a waste product. How could the first phototrophs have evolved at a time when life existed mostly near hydrothermal systems ? A clue came from the recent discovery of anoxygenic phototrophs living at hydrothermal vents in the complete darkness of the deep ocean. These phototrophs actually carry out photosynthesis using infrared radiation generated by the heat of hydrothermal vents. Likewise, the first photosynthetic organisms likely lived in the dark, at hydrothermal vents where H_2S and infrared radiation were abundant. Diversification of anoxygenic phototrophs led to species that were able to use a range of electron donors including Fe^{2+} , which was abundant throughout Earth's early oceans. The ability to use Fe^{2+} as an electron donor likely allowed early phototrophs to escape from hydrothermal systems and colonize shallow regions of Earth's early oceans where light was abundant but where overlying water still provided protection from UV radiation. The ability to use solar radiation as an energy source allowed phototrophs to diversify extensively. By 2.5-3.3 bya, the cyanobacterial lineage evolved a photosystem capable of oxygenic photosynthesis in which H_2O supplanted H_2S as the reductant for CO_2 , thereby generating O_2 as a waste product. About a billion years later, eukaryotic oxygen phototrophs appeared and can be seen in the microfossil record.

SubQuestion No : 141

Q.141 Which of the following chemical species played a crucial role in the early phototrophs' colonization in the shallow waters of Earth's early oceans ?

- (1) H_2O
- (2) O_2
- (3) Fe^{2+}
- (4) CO_2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114651

Option 1 ID : 51270157077

Option 2 ID : 51270157078

Option 3 ID : 51270157079

Option 4 ID : 51270157080

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

The first phototrophs were anoxygenic and likely used H_2S as electron donor for CO_2 fixation, generating elemental sulfur (S^0) as a waste product. How could the first phototrophs have evolved at a time when life existed mostly near hydrothermal systems ? A clue came from the recent discovery of anoxygenic phototrophs living at hydrothermal vents in the complete darkness of the deep ocean. These phototrophs actually carry out photosynthesis using infrared radiation generated by the heat of hydrothermal vents. Likewise, the first photosynthetic organisms likely lived in the dark, at hydrothermal vents where H_2S and infrared radiation were abundant. Diversification of anoxygenic phototrophs led to species that were able to use a range of electron donors including Fe^{2+} , which was abundant throughout Earth's early oceans. The ability to use Fe^{2+} as an electron donor likely allowed early phototrophs to escape from hydrothermal systems and colonize shallow regions of Earth's early oceans where light was abundant but where overlying water still provided protection from UV radiation. The ability to use solar radiation as an energy source allowed phototrophs to diversify extensively. By 2.5-3.3 bya, the cyanobacterial lineage evolved a photosystem capable of oxygenic photosynthesis in which H_2O supplanted H_2S as the reductant for CO_2 , thereby generating O_2 as a waste product. About a billion years later, eukaryotic oxygen phototrophs appeared and can be seen in the microfossil record.

SubQuestion No : 142

Q.142

The first photosynthetic organisms likely released :

- (1) S^0
- (2) H_2S
- (3) CO_2
- (4) O_2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114648

Option 1 ID : 51270157065

Option 2 ID : 51270157066

Option 3 ID : 51270157067

Option 4 ID : 51270157068

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage and answer the questions below :

The first phototrophs were anoxygenic and likely used H_2S as electron donor for CO_2 fixation, generating elemental sulfur (S^0) as a waste product. How could the first phototrophs have evolved at a time when life existed mostly near hydrothermal systems ? A clue came from the recent discovery of anoxygenic phototrophs living at hydrothermal vents in the complete darkness of the deep ocean. These phototrophs actually carry out photosynthesis using infrared radiation generated by the heat of hydrothermal vents. Likewise, the first photosynthetic organisms likely lived in the dark, at hydrothermal vents where H_2S and infrared radiation were abundant. Diversification of anoxygenic phototrophs led to species that were able to use a range of electron donors including Fe^{2+} , which was abundant throughout Earth's early oceans. The ability to use Fe^{2+} as an electron donor likely allowed early phototrophs to escape from hydrothermal systems and colonize shallow regions of Earth's early oceans where light was abundant but where overlying water still provided protection from UV radiation. The ability to use solar radiation as an energy source allowed phototrophs to diversify extensively. By 2.5-3.3 bya, the cyanobacterial lineage evolved a photosystem capable of oxygenic photosynthesis in which H_2O supplanted H_2S as the reductant for CO_2 , thereby generating O_2 as a waste product. About a billion years later, eukaryotic oxygen phototrophs appeared and can be seen in the microfossil record.

SubQuestion No : 143

Q.143 Identify the most probable time when the ability to use water for photosynthesis developed in the organisms.

- (1) 3.8 billion years ago
- (2) 3 billion years ago
- (3) 4 billion years ago
- (4) 4.3 billion years ago

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114650

Option 1 ID : 51270157073

Option 2 ID : 51270157074

Option 3 ID : 51270157075

Option 4 ID : 51270157076

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage and answer the questions below :

The first phototrophs were anoxygenic and likely used H_2S as electron donor for CO_2 fixation, generating elemental sulfur (S^0) as a waste product. How could the first phototrophs have evolved at a time when life existed mostly near hydrothermal systems ? A clue came from the recent discovery of anoxygenic phototrophs living at hydrothermal vents in the complete darkness of the deep ocean. These phototrophs actually carry out photosynthesis using infrared radiation generated by the heat of hydrothermal vents. Likewise, the first photosynthetic organisms likely lived in the dark, at hydrothermal vents where H_2S and infrared radiation were abundant. Diversification of anoxygenic phototrophs led to species that were able to use a range of electron donors including Fe^{2+} , which was abundant throughout Earth's early oceans. The ability to use Fe^{2+} as an electron donor likely allowed early phototrophs to escape from hydrothermal systems and colonize shallow regions of Earth's early oceans where light was abundant but where overlying water still provided protection from UV radiation. The ability to use solar radiation as an energy source allowed phototrophs to diversify extensively. By 2.5-3.3 bya, the cyanobacterial lineage evolved a photosystem capable of oxygenic photosynthesis in which H_2O supplanted H_2S as the reductant for CO_2 , thereby generating O_2 as a waste product. About a billion years later, eukaryotic oxygen phototrophs appeared and can be seen in the microfossil record.

SubQuestion No : 144

Q.144 The early photosynthetic organisms likely existed in :

- (1) Surface waters
- (2) Shallow regions of oceans
- (3) Layers of oceans where visible light was abundant but UV light was absent
- (4) Deep in the oceans at specific places in ocean bottoms

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114649

Option 1 ID : 51270157069

Option 2 ID : 51270157070

Option 3 ID : 51270157071

Option 4 ID : 51270157072

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

The first phototrophs were anoxygenic and likely used H_2S as electron donor for CO_2 fixation, generating elemental sulfur (S^0) as a waste product. How could the first phototrophs have evolved at a time when life existed mostly near hydrothermal systems ? A clue came from the recent discovery of anoxygenic phototrophs living at hydrothermal vents in the complete darkness of the deep ocean. These phototrophs actually carry out photosynthesis using infrared radiation generated by the heat of hydrothermal vents. Likewise, the first photosynthetic organisms likely lived in the dark, at hydrothermal vents where H_2S and infrared radiation were abundant. Diversification of anoxygenic phototrophs led to species that were able to use a range of electron donors including Fe^{2+} , which was abundant throughout Earth's early oceans. The ability to use Fe^{2+} as an electron donor likely allowed early phototrophs to escape from hydrothermal systems and colonize shallow regions of Earth's early oceans where light was abundant but where overlying water still provided protection from UV radiation. The ability to use solar radiation as an energy source allowed phototrophs to diversify extensively. By 2.5-3.3 bya, the cyanobacterial lineage evolved a photosystem capable of oxygenic photosynthesis in which H_2O supplanted H_2S as the reductant for CO_2 , thereby generating O_2 as a waste product. About a billion years later, eukaryotic oxygen phototrophs appeared and can be seen in the microfossil record.

SubQuestion No : 145

Q.145 The first phototrophs used which of the following types of radiations for photosynthesis ?

- (1) Ultraviolet
- (2) Violet
- (3) Infrared
- (4) Yellow

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114647

Option 1 ID : 51270157061

Option 2 ID : 51270157062

Option 3 ID : 51270157063

Option 4 ID : 51270157064

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

Waves expend their energy when they reach the coastline. But, the amount is surprisingly large. For example, the energy expended on a 400 km length of open coastline by waves with a height of about 1 m over a given period of time is approximately equivalent to the energy produced by one average-sized nuclear power plant over the same time period. Wave energy is approximately proportional to the square of the wave height. Thus, if wave height increases to 5 m, which is typical for large storms, then the energy expended, or wave power, increases 25 times over that of waves with a height of 1 m. When waves enter the coastal zone and shallow water, they impinge on the bottom and become steeper. Wave steepness is the ratio of wave height to wave length. Waves are unstable when the wave height is greater than about 10 percent (0.1) of the wave length. As waves move into shallow water, the wave period remains constant, but wave length and velocity decrease and wave height increases. The waves change shape from the rounded crests and troughs in deep water to peaked crests with relatively flat troughs in shallow water close to shore. Perhaps the most dramatic feature of waves entering shallow water is their rapid increase in height. The height of waves in shallow water, where they break, may be as much as twice their deep-water height.

SubQuestion No : 146

Q.146 When waves move into shallow water, which of the following would NOT change ?

- (1) Wave height
- (2) Wave length
- (3) Wave velocity
- (4) Wave period

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114655

Option 1 ID : 51270157089

Option 2 ID : 51270157090

Option 3 ID : 51270157091

Option 4 ID : 51270157092

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage and answer the questions below :

Waves expend their energy when they reach the coastline. But, the amount is surprisingly large. For example, the energy expended on a 400 km length of open coastline by waves with a height of about 1 m over a given period of time is approximately equivalent to the energy produced by one average-sized nuclear power plant over the same time period. Wave energy is approximately proportional to the square of the wave height. Thus, if wave height increases to 5 m, which is typical for large storms, then the energy expended, or wave power, increases 25 times over that of waves with a height of 1 m. When waves enter the coastal zone and shallow water, they impinge on the bottom and become steeper. Wave steepness is the ratio of wave height to wave length. Waves are unstable when the wave height is greater than about 10 percent (0.1) of the wave length. As waves move into shallow water, the wave period remains constant, but wave length and velocity decrease and wave height increases. The waves change shape from the rounded crests and troughs in deep water to peaked crests with relatively flat troughs in shallow water close to shore. Perhaps the most dramatic feature of waves entering shallow water is their rapid increase in height. The height of waves in shallow water, where they break, may be as much as twice their deep-water height.

SubQuestion No : 147

Q.147 Energy expended by waves of height 2 m on a 1000 km length of open coastline would be approximately equivalent to the energy produced by how many average sized nuclear power plants ?

- (1) 10
- (2) 4
- (3) 2.5
- (4) 5

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114657

Option 1 ID : 51270157097

Option 2 ID : 51270157098

Option 3 ID : 51270157099

Option 4 ID : 51270157100

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

Waves expend their energy when they reach the coastline. But, the amount is surprisingly large. For example, the energy expended on a 400 km length of open coastline by waves with a height of about 1 m over a given period of time is approximately equivalent to the energy produced by one average-sized nuclear power plant over the same time period. Wave energy is approximately proportional to the square of the wave height. Thus, if wave height increases to 5 m, which is typical for large storms, then the energy expended, or wave power, increases 25 times over that of waves with a height of 1 m. When waves enter the coastal zone and shallow water, they impinge on the bottom and become steeper. Wave steepness is the ratio of wave height to wave length. Waves are unstable when the wave height is greater than about 10 percent (0.1) of the wave length. As waves move into shallow water, the wave period remains constant, but wave length and velocity decrease and wave height increases. The waves change shape from the rounded crests and troughs in deep water to peaked crests with relatively flat troughs in shallow water close to shore. Perhaps the most dramatic feature of waves entering shallow water is their rapid increase in height. The height of waves in shallow water, where they break, may be as much as twice their deep-water height.

SubQuestion No : 148

Q.148

Which of the following corresponds to an unstable wave ?

- (1) Wave height = 2m Wavelength = 30m
- (2) Wave height = 2.5m Wavelength = 20m
- (3) Wave height = 3m Wavelength = 40m
- (4) Wave height = 1.5m Wavelength = 25m

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114654

Option 1 ID : 51270157085

Option 2 ID : 51270157086

Option 3 ID : 51270157087

Option 4 ID : 51270157088

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions below :

Waves expend their energy when they reach the coastline. But, the amount is surprisingly large. For example, the energy expended on a 400 km length of open coastline by waves with a height of about 1 m over a given period of time is approximately equivalent to the energy produced by one average-sized nuclear power plant over the same time period. Wave energy is approximately proportional to the square of the wave height. Thus, if wave height increases to 5 m, which is typical for large storms, then the energy expended, or wave power, increases 25 times over that of waves with a height of 1 m. When waves enter the coastal zone and shallow water, they impinge on the bottom and become steeper. Wave steepness is the ratio of wave height to wave length. Waves are unstable when the wave height is greater than about 10 percent (0.1) of the wave length. As waves move into shallow water, the wave period remains constant, but wave length and velocity decrease and wave height increases. The waves change shape from the rounded crests and troughs in deep water to peaked crests with relatively flat troughs in shallow water close to shore. Perhaps the most dramatic feature of waves entering shallow water is their rapid increase in height. The height of waves in shallow water, where they break, may be as much as twice their deep-water height.

SubQuestion No : 149

Q.149 Which of the following is a characteristic of the shallow water close to shore ?

- (1) Rounded crests
- (2) Rounded troughs
- (3) Flat troughs
- (4) Peaked troughs

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 51270114656

Option 1 ID : 51270157093

Option 2 ID : 51270157094

Option 3 ID : 51270157095

Option 4 ID : 51270157096

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage and answer the questions below :

Waves expend their energy when they reach the coastline. But, the amount is surprisingly large. For example, the energy expended on a 400 km length of open coastline by waves with a height of about 1 m over a given period of time is approximately equivalent to the energy produced by one average-sized nuclear power plant over the same time period. Wave energy is approximately proportional to the square of the wave height. Thus, if wave height increases to 5 m, which is typical for large storms, then the energy expended, or wave power, increases 25 times over that of waves with a height of 1 m. When waves enter the coastal zone and shallow water, they impinge on the bottom and become steeper. Wave steepness is the ratio of wave height to wave length. Waves are unstable when the wave height is greater than about 10 percent (0.1) of the wave length. As waves move into shallow water, the wave period remains constant, but wave length and velocity decrease and wave height increases. The waves change shape from the rounded crests and troughs in deep water to peaked crests with relatively flat troughs in shallow water close to shore. Perhaps the most dramatic feature of waves entering shallow water is their rapid increase in height. The height of waves in shallow water, where they break, may be as much as twice their deep-water height.

SubQuestion No : 150

Q.150

If wave height increases by 3 times, wave energy would increase by :

- (1) 3 times
- (2) 6 times
- (3) 9 times
- (4) 12 times

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 51270114653

Option 1 ID : 51270157081

Option 2 ID : 51270157082

Option 3 ID : 51270157083

Option 4 ID : 51270157084

Status : Answered

Chosen Option : 3